

Figure 2

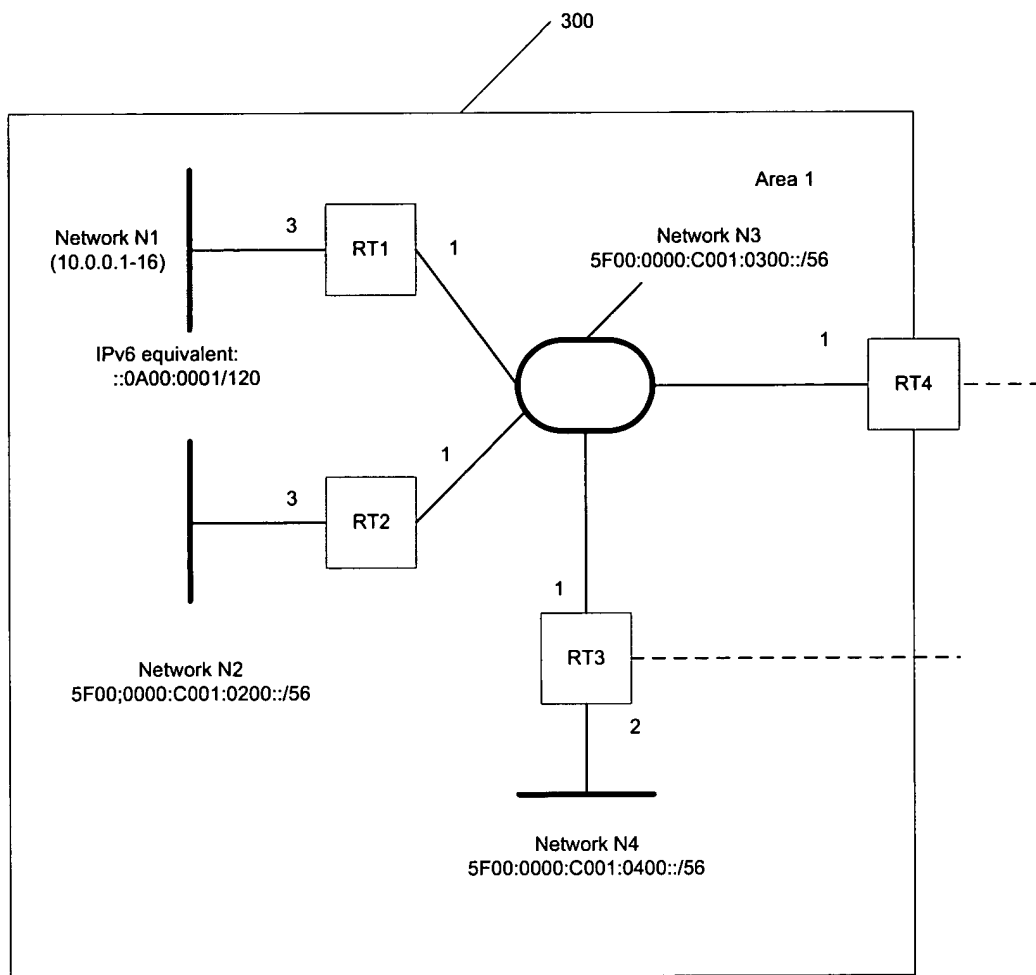


Figure 3

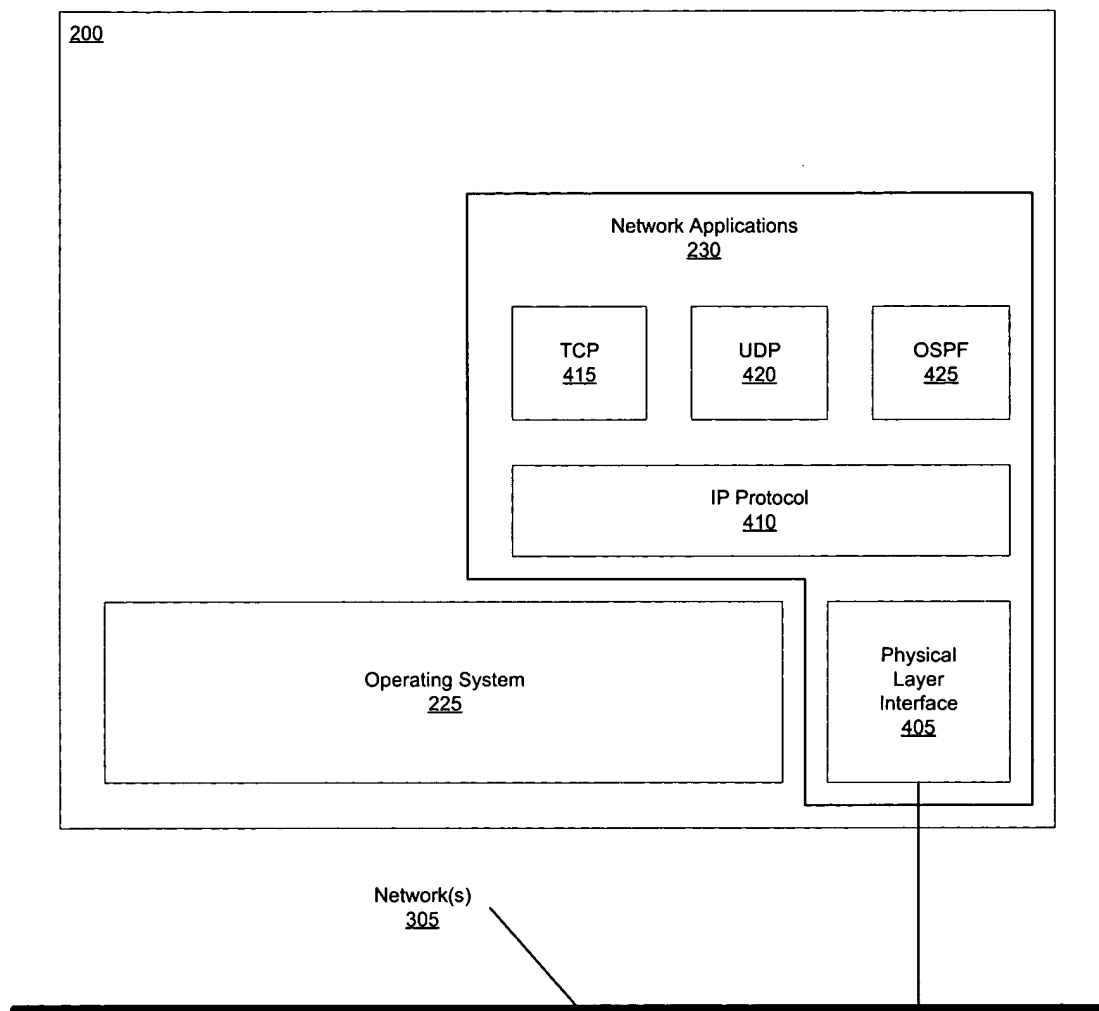
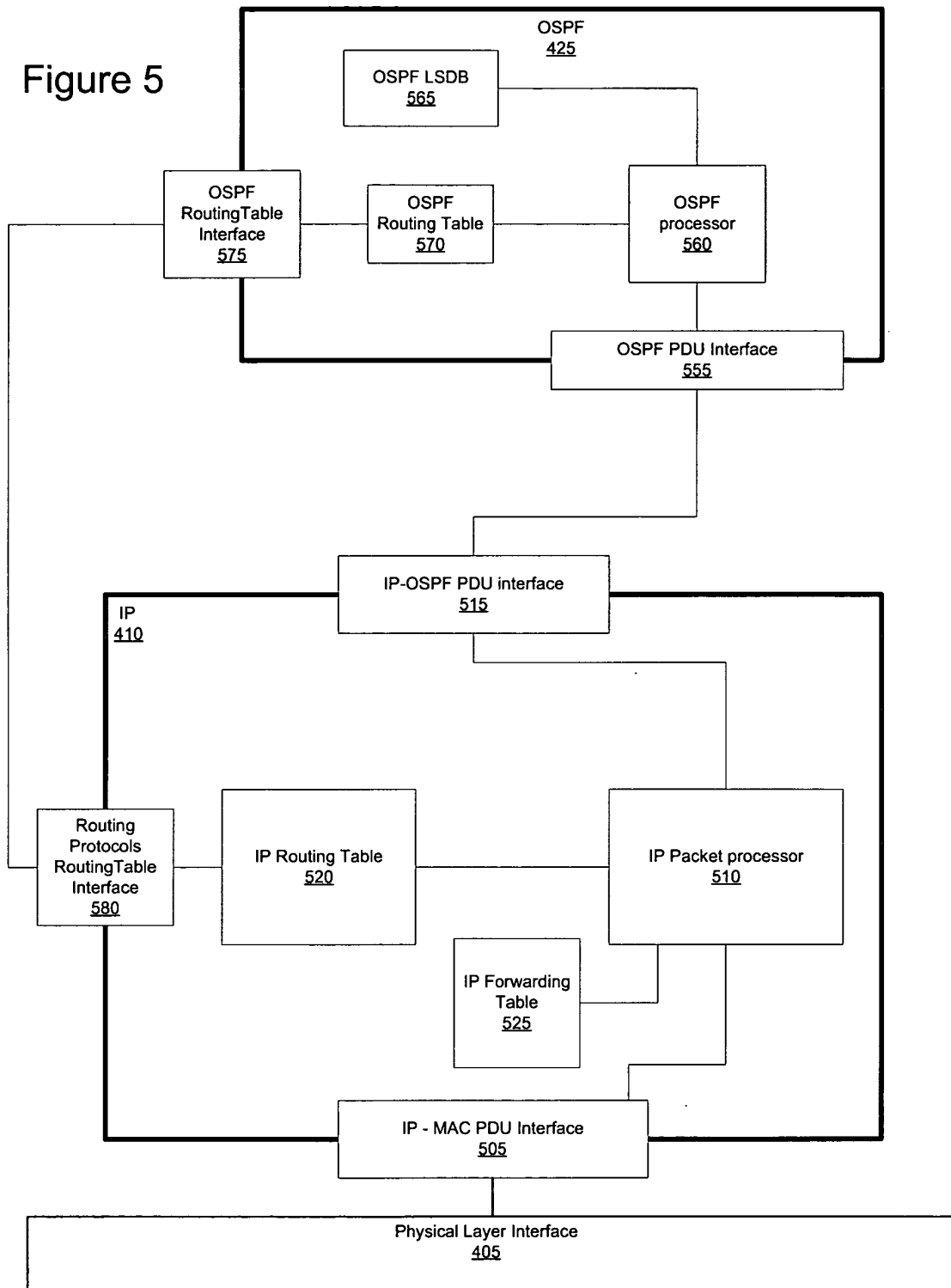


Figure 4

Figure 5



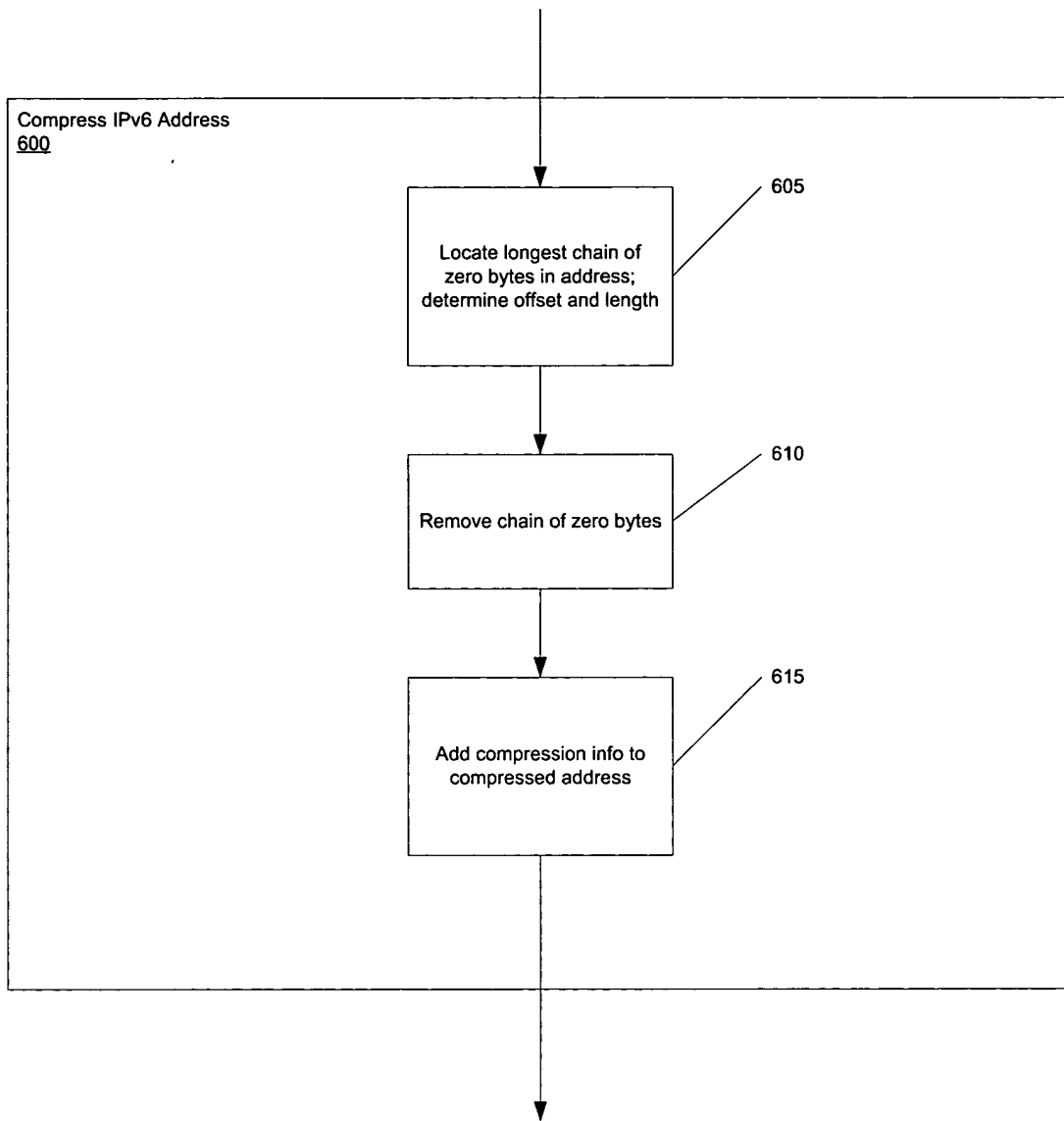


Figure 6

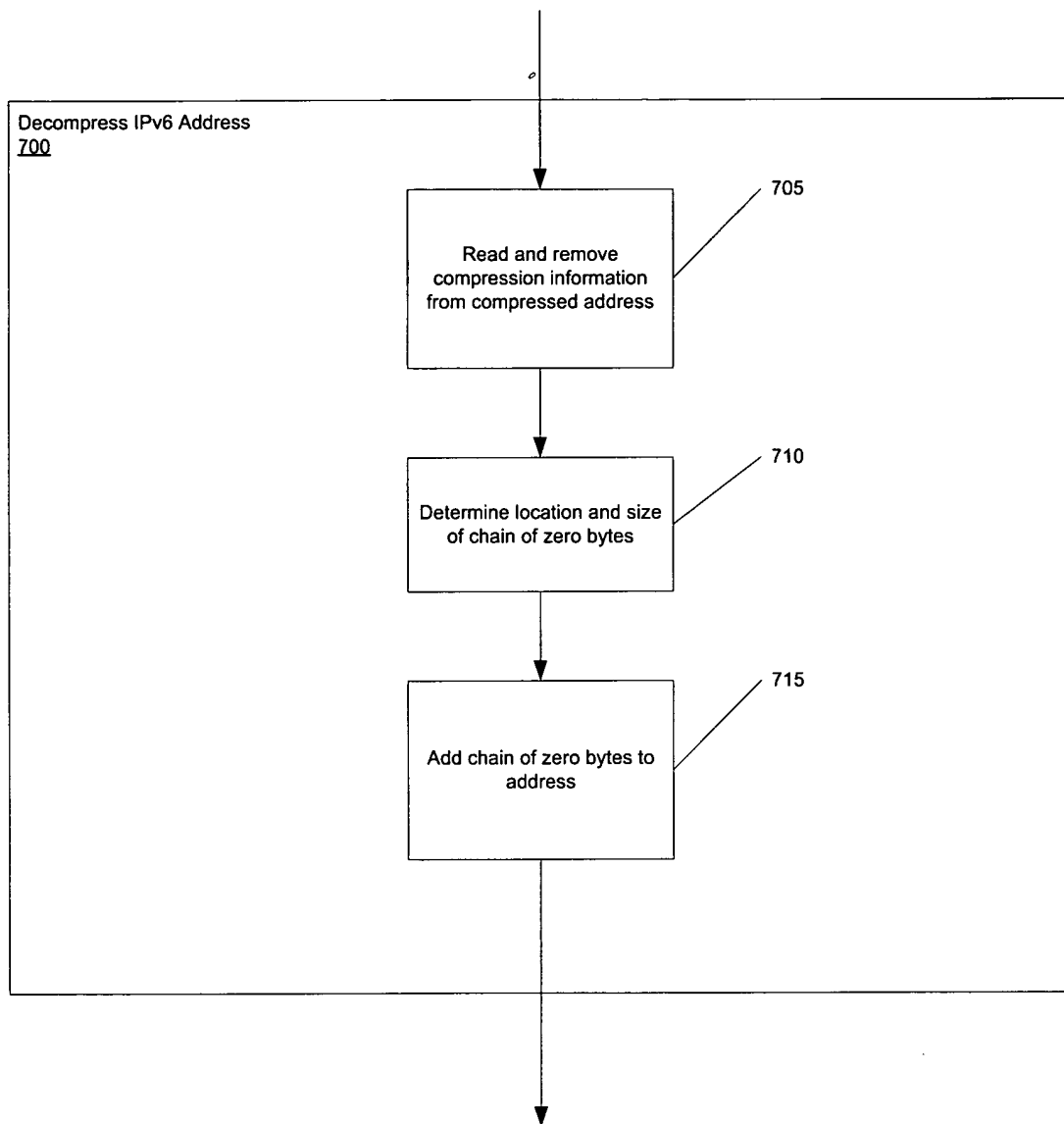


Figure 7

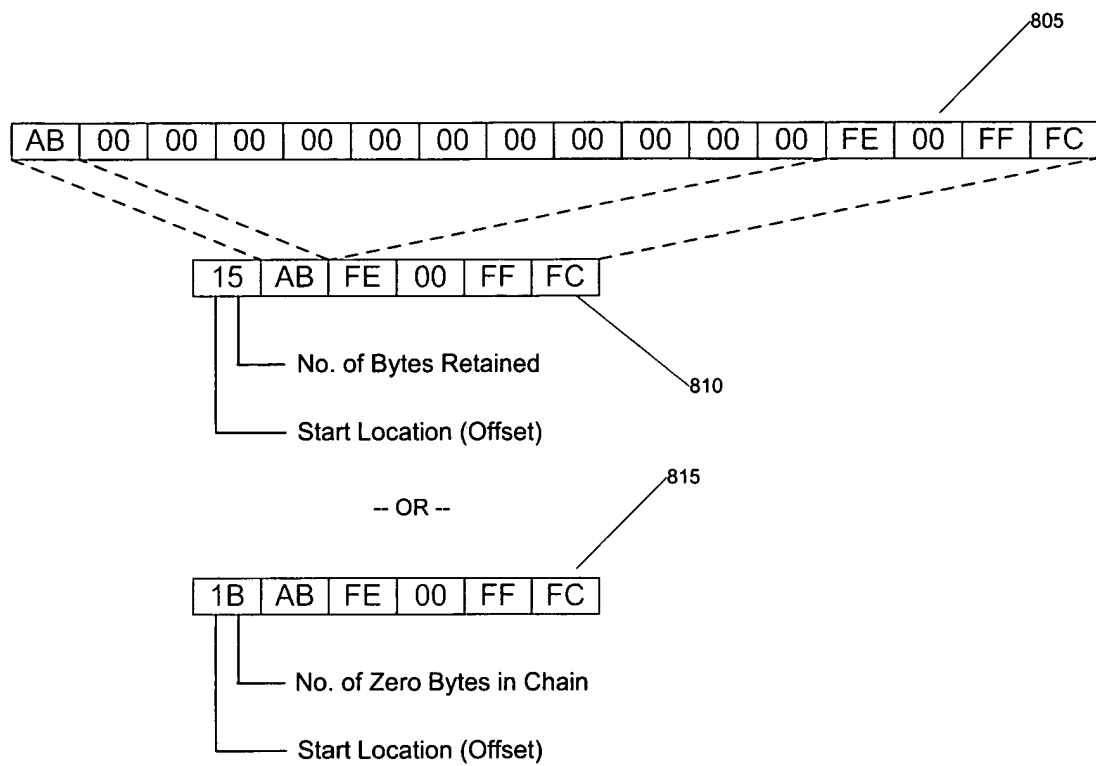


Figure 8(a)

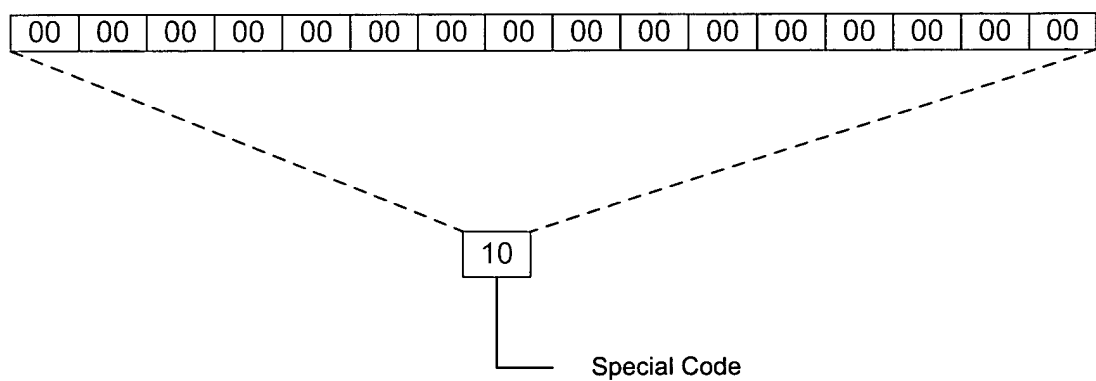


Figure 8(b)

Figure 9

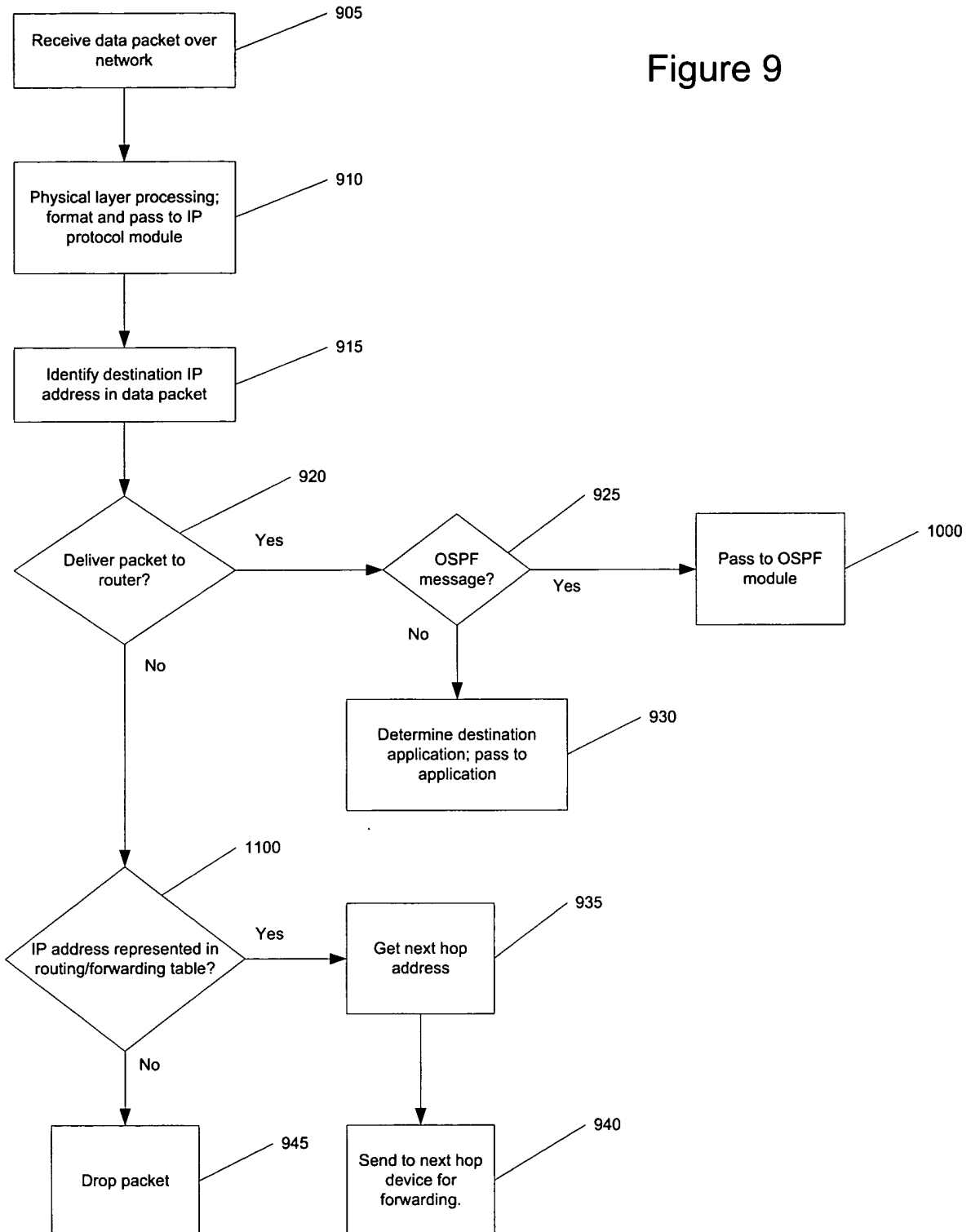
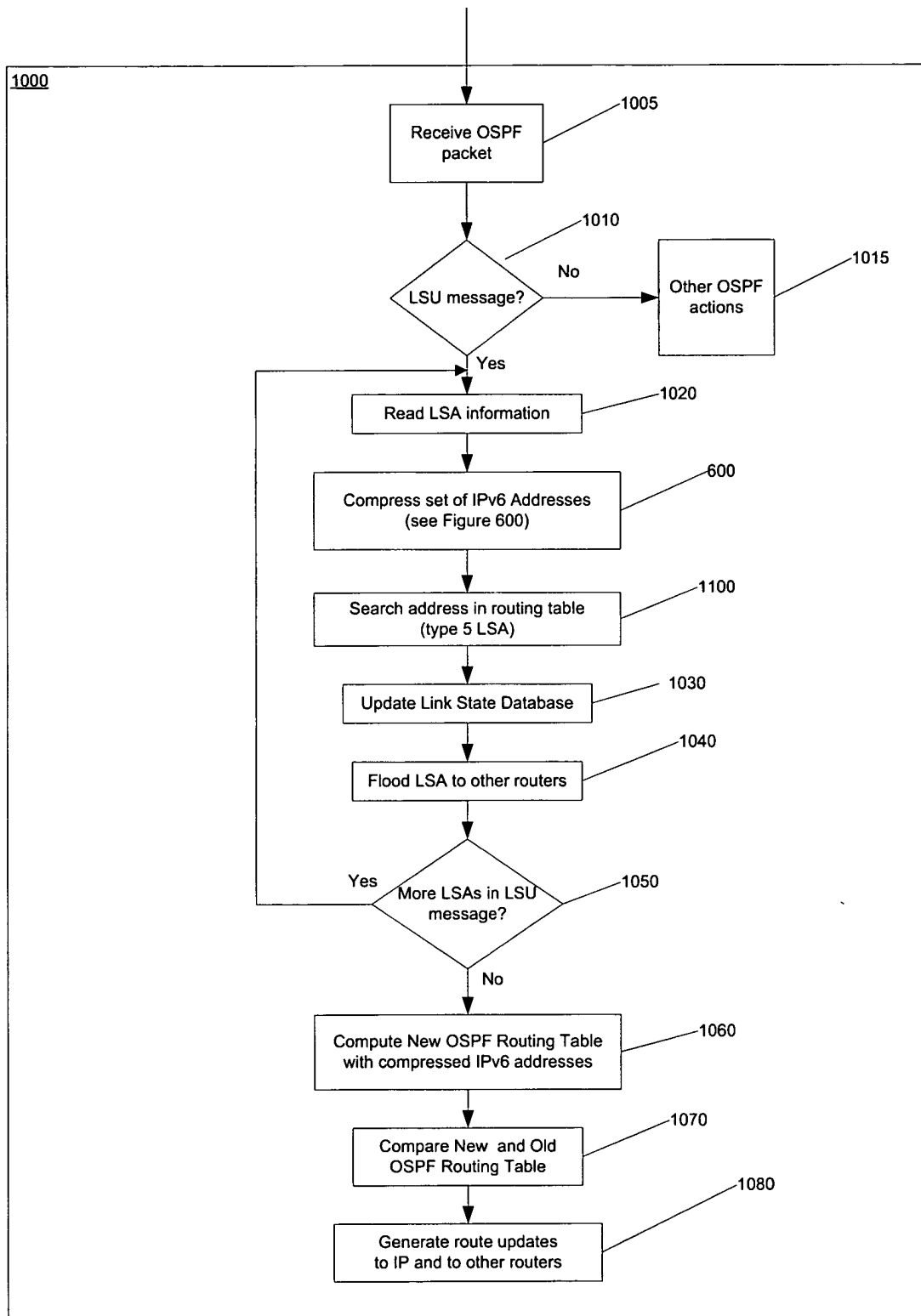


Figure 10



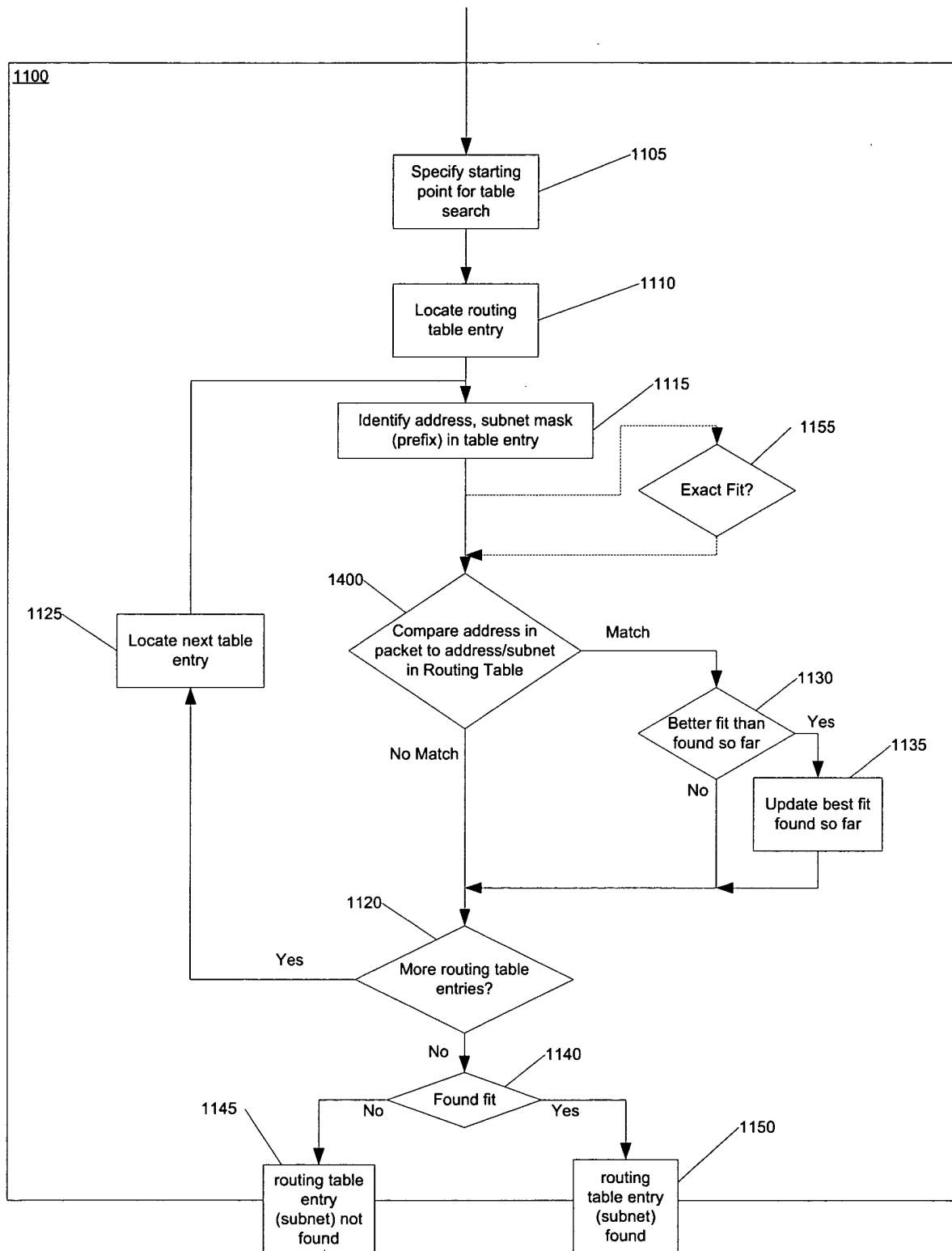


Figure 11

520			
...	IPv6 Address	Mask length	...
1205	
1210	00:FEDC:BA98:7654:3210:FEDC:BA98:7654:3210	128	
1215	04:0a000100	120	
	28:1080:FEDC:BA98:7654	120	
	04:0b000001	120	
	04:0b000500	120	
	

Figure 12

Example of comparison of compressed addresses with same offset and same length: just compare the compression byte, the first 2 bytes and the one before last byte (4 bytes) instead of first 15 bytes which would be compared for uncompressed addresses

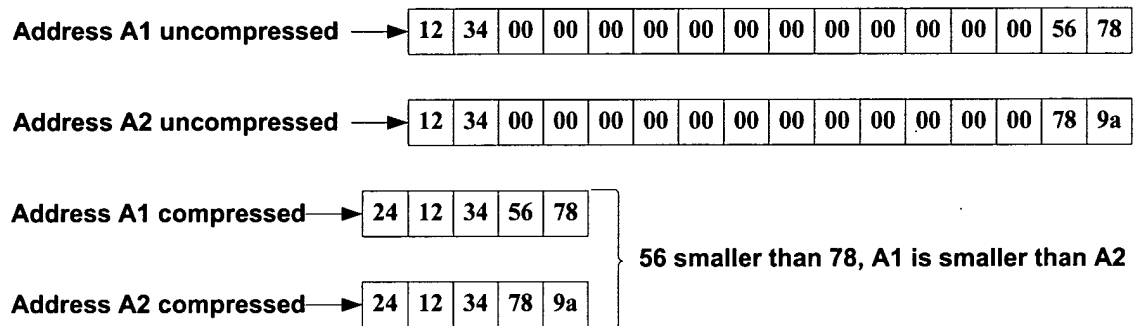


Figure 13(a)

Example of comparison of IPv4 compatible IPv6 addresses: just compare at most 5 bytes (in this particular case, just compare 2 bytes) instead of comparing at least first 12 bytes which would be compared for uncompressed addresses

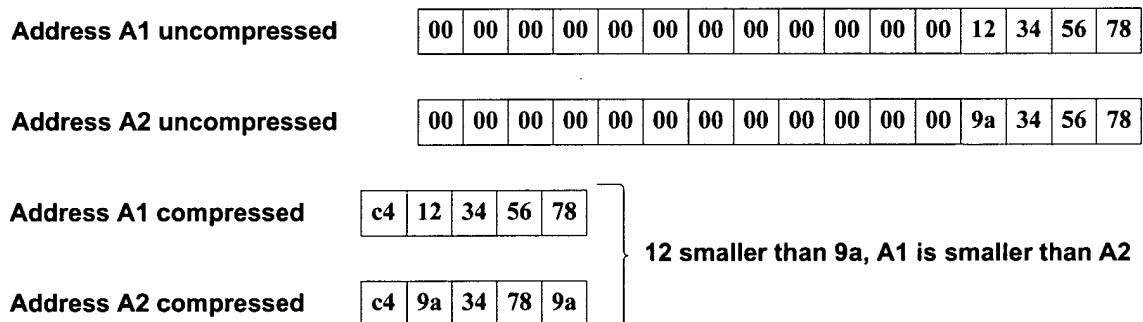


Figure 13(b)

Example of comparison of compressed addresses with same offset: just compare the compression byte and first 2 bytes instead of 14 bytes

Address A1 uncompressed

12	34	00	00	00	00	00	00	00	00	00	00	00	00	00	56	78
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Address A2 uncompressed

12	34	00	00	00	00	00	00	00	00	00	00	00	00	56	78	9a
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Address A1 compressed

24	12	34	56	78
----	----	----	----	----

Address A2 compressed

25	12	34	56	78	9a
----	----	----	----	----	----

Figure 13(c)

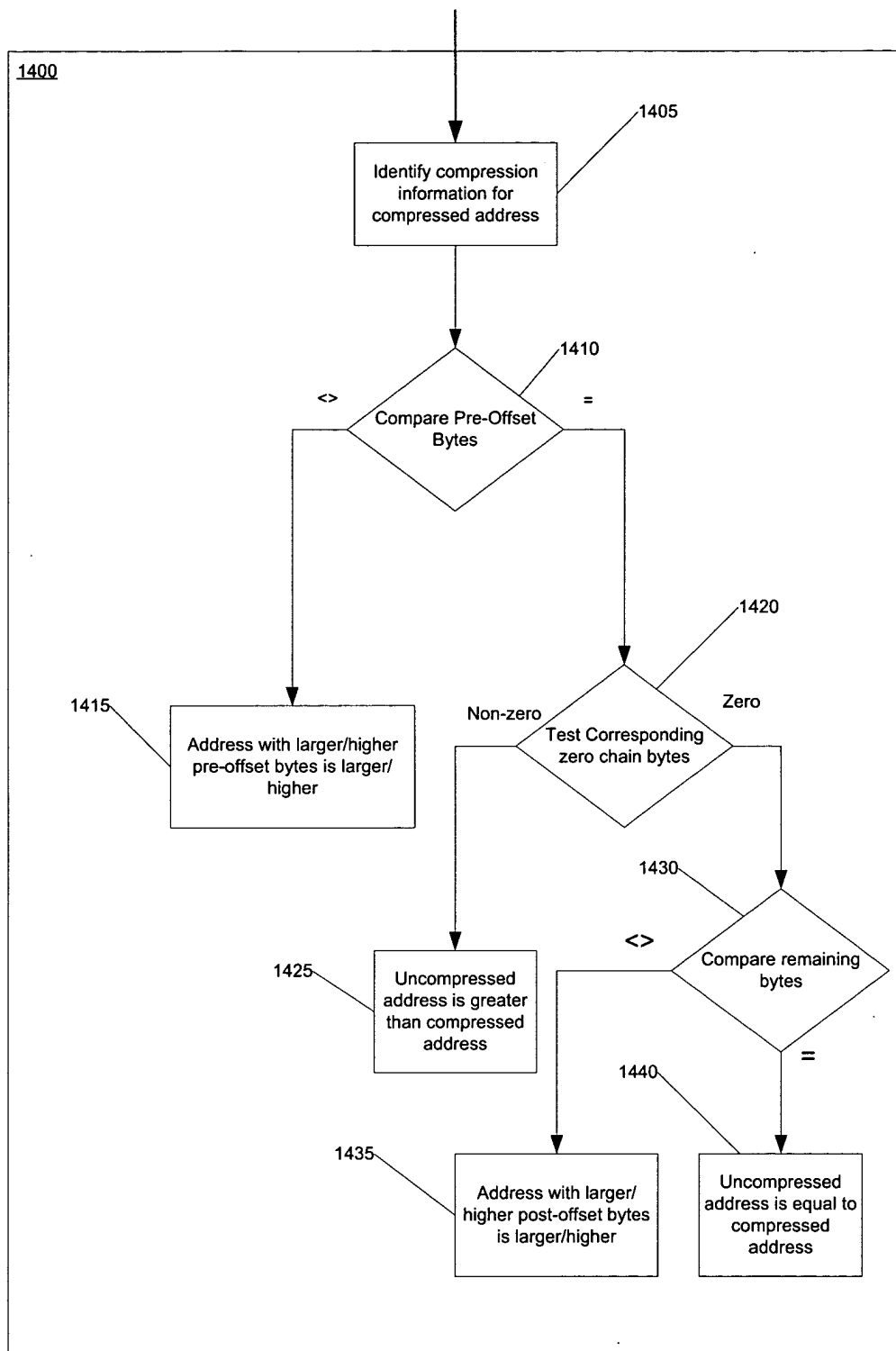
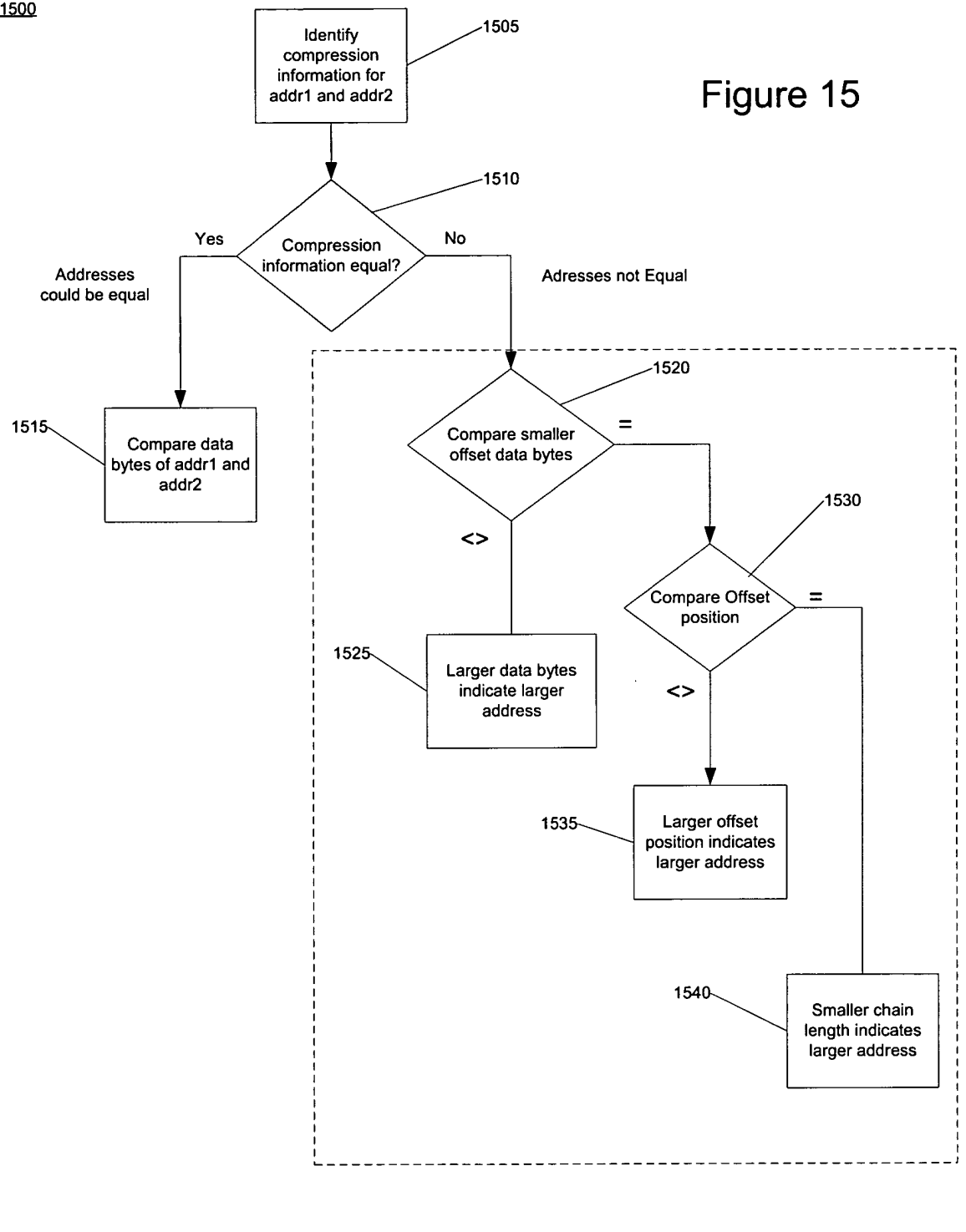


Figure 14

1500

Figure 15



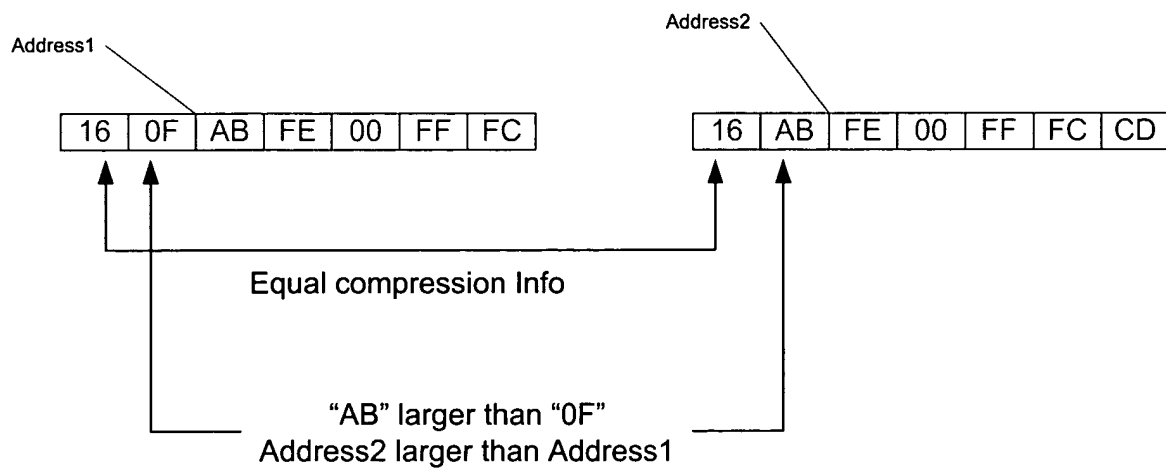


Figure 16(a)

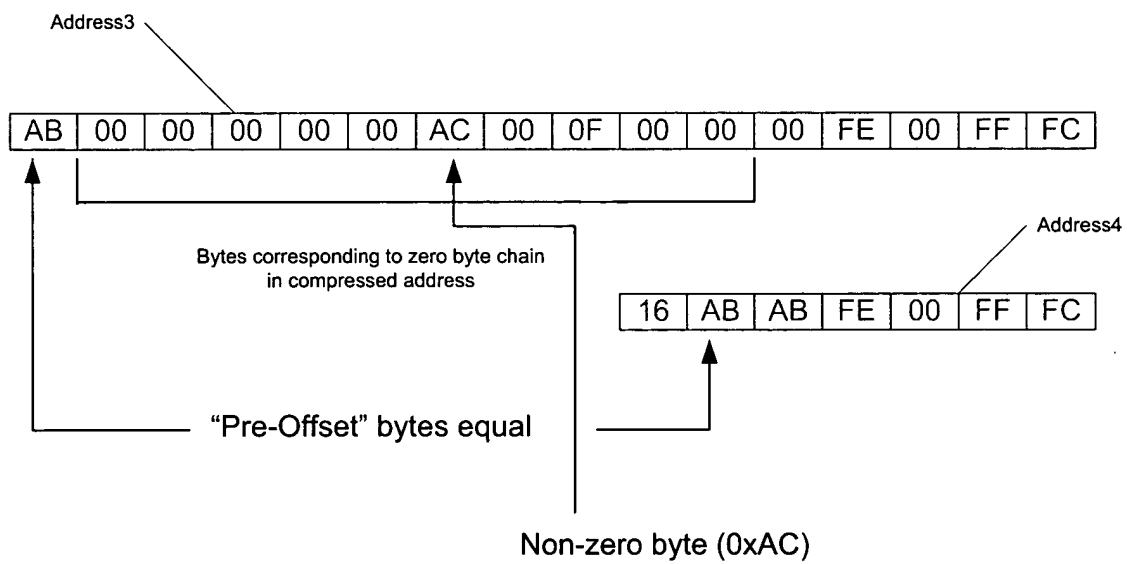
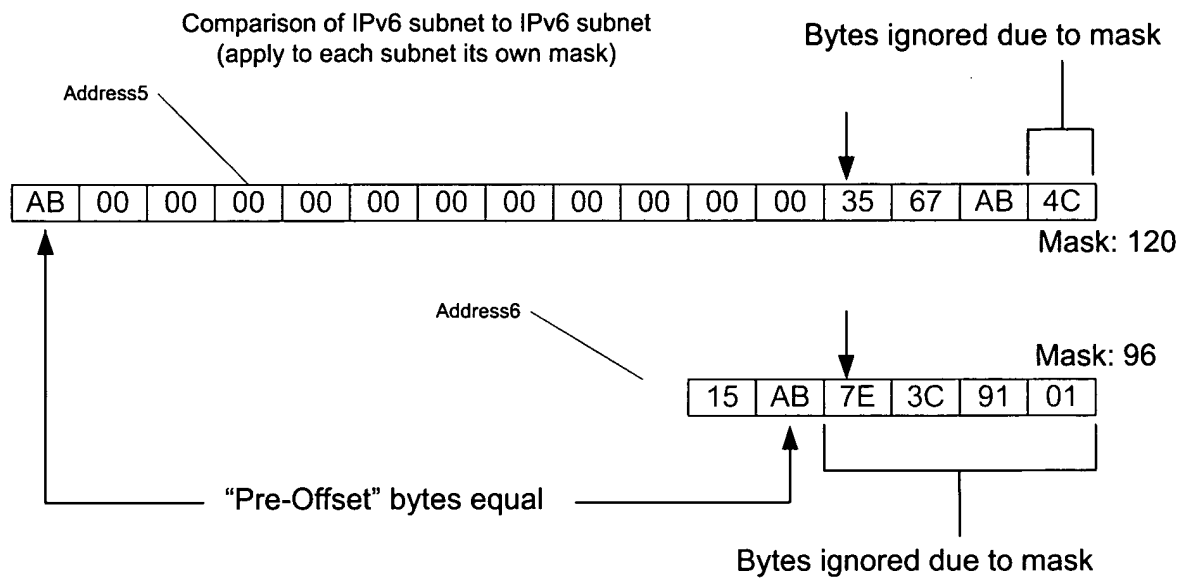
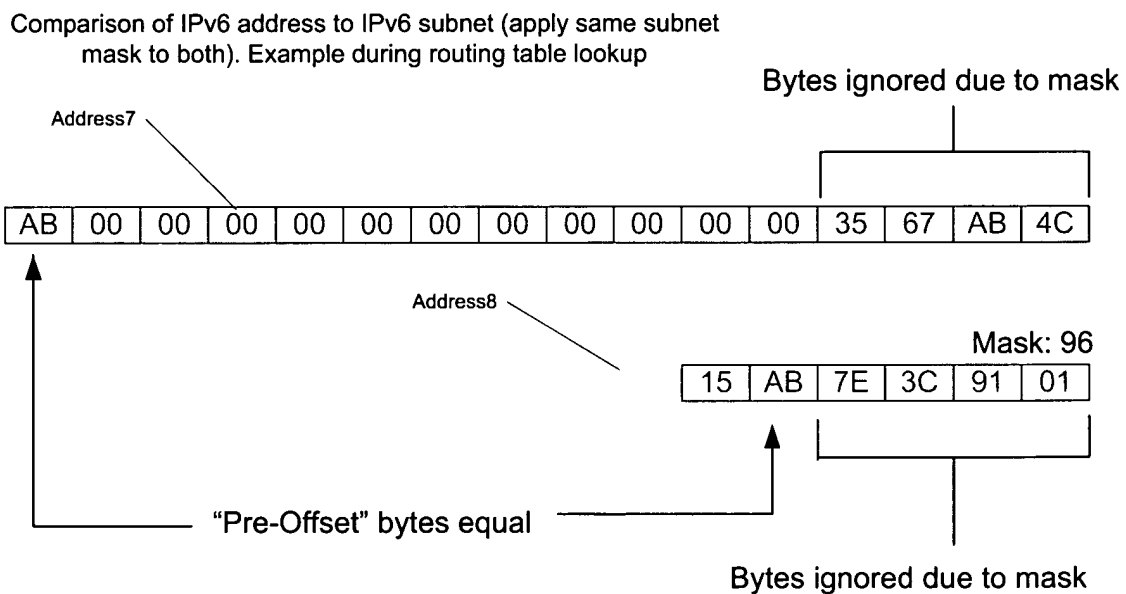


Figure 16(b)



Subnet Address5/120 bigger than subnet Address6/96

Figure 16(c)



Address7 equal ("included in") subnet Address8/96

Figure 16(d)